
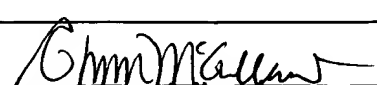




UTILITY PATENT APPLICATION TRANSMITTAL <small>(Only for new nonprovisional applications under 37 CFR 1.53(b))</small>	Attorney Docket No.	197111US2SRD
	First Inventor or Application Identifier	Hirofumi MURATANI
	Title	CODE GENERATING METHOD AND UNIT THEREOF, CODE DETECTING METHOD AND UNIT THEREOF, AND WATERMARK EMBEDDING UNIT AND WATERMARK DETECTING UNIT

APPLICATION ELEMENTS <small>See MPEP chapter 600 concerning utility patent application contents</small>	ADDRESS TO: Assistant Commissioner for Patents Box Patent Application Washington, DC 20231
<p>1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g. PTO/SB/17) (Submit an original and a duplicate for fee processing)</p> <p>2. <input checked="" type="checkbox"/> Specification Total Pages 114</p> <p>3. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) Total Sheets 26 (Formals)</p> <p>4. <input checked="" type="checkbox"/> Oath or Declaration Total Pages 2</p> <p>a. <input checked="" type="checkbox"/> Newly executed (original)</p> <p>b. <input type="checkbox"/> Copy from a prior application (37 C.F.R. §1.63(d)) (for continuation/divisional with box 15 completed)</p> <p>i. <input type="checkbox"/> DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §1.63(d)(2) and 1.33(b).</p> <p>5. <input type="checkbox"/> Incorporation By Reference (usable if box 4B is checked) The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4B, is considered to be part of the disclosure of the accompanying application and is hereby incorporated by reference therein.</p>	ACCOMPANYING APPLICATION PARTS <p>6. <input checked="" type="checkbox"/> Assignment Papers (cover sheet & document(s))</p> <p>7. <input type="checkbox"/> 37 C.F.R. §3.73(b) Statement (when there is an assignee) <input type="checkbox"/> Power of Attorney</p> <p>8. <input type="checkbox"/> English Translation Document (if applicable)</p> <p>9. <input checked="" type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input checked="" type="checkbox"/> Copies of IDS Citations (14)</p> <p>10. <input type="checkbox"/> Preliminary Amendment</p> <p>11. <input checked="" type="checkbox"/> White Advance Serial No. Postcard</p> <p>12. <input type="checkbox"/> Small Entity Statement(s) <input type="checkbox"/> Statement filed in prior application. Status still proper and desired.</p> <p>13. <input type="checkbox"/> Certified Copy of Priority Document(s) (if foreign priority is claimed)</p> <p>14. <input checked="" type="checkbox"/> Other: Notice of Priority, List of Related Cases, Statement of Relevancy</p>
<p>15. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below:</p> <p><input type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-part (CIP) of prior application no.: Prior application information: Examiner: Group Art Unit:</p>	
<p>16. Amend the specification by inserting before the first line the sentence:</p> <p><input type="checkbox"/> This application is a <input type="checkbox"/> Continuation <input type="checkbox"/> Division <input type="checkbox"/> Continuation-in-part (CIP) of application Serial No. Filed on</p> <p><input type="checkbox"/> This application claims priority of provisional application Serial No. Filed</p>	
<p>17. CORRESPONDENCE ADDRESS</p> <p> 22850 (703) 413-3000 FACSIMILE: (703) 413-2220</p>	

Name:	Marvin J. Spivak	Registration No.:	24,913
Signature:		Date:	9/8/00
Name:	C. Irvin McClelland Registration Number 21,124	Registration No.:	

Docket No. 197111US2SRD

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INVENTOR(S) Hirofumi MURATANI

SERIAL NO: New Application

FILING DATE: Herewith

FOR: CODE GENERATING METHOD AND UNIT THEREOF, CODE DETECTING METHOD AND UNIT THEREOF, AND WATERMARK EMBEDDING UNIT AND WATERMARK DETECTING UNIT

FEE TRANSMITTAL

ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

FOR	NUMBER FILED	NUMBER EXTRA	RATE	CALCULATIONS
TOTAL CLAIMS	32 - 20 =	12	× \$18 =	\$216.00
INDEPENDENT CLAIMS	10 - 3 =	7	× \$78 =	\$546.00
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIMS (If applicable)			+ \$260 =	\$0.00
<input type="checkbox"/> LATE FILING OF DECLARATION			+ \$130 =	\$0.00
BASIC FEE				\$690.00
TOTAL OF ABOVE CALCULATIONS				\$1,452.00
<input type="checkbox"/> REDUCTION BY 50% FOR FILING BY SMALL ENTITY				\$0.00
<input type="checkbox"/> FILING IN NON-ENGLISH LANGUAGE			+ \$130 =	\$0.00
<input checked="" type="checkbox"/> RECORDATION OF ASSIGNMENT			+ \$40 =	\$40.00
TOTAL				\$1,492.00

3618 U.S. PTO
09/658565
09/08/00

- ☐ Please charge Deposit Account No. 15-0030 in the amount of _____ A duplicate copy of this sheet is enclosed.
- ☐ A check in the amount of **\$1,492.00** to cover the filing fee is enclosed.
- ☐ The Commissioner is hereby authorized to charge any additional fees which may be required for the papers being filed herewith and for which no check is enclosed herewith, or credit any overpayment to Deposit Account No. 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully Submitted,

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.



Marvin J. Spivak

Registration No. 24,913

C. Irvin McClelland

Registration Number 21,124

Date: _____

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Hirofumi MURATANI

SERIAL NO.: New Application

FILED: Herewith



FOR: CODE GENERATING METHOD AND UNIT THEREOF, CODE DETECTING METHOD AND UNIT THEREOF, AND WATERMARK EMBEDDING UNIT AND WATERMARK DETECTING UNIT

STATEMENT OF RELEVANCY

Reference AA (5,664,018) on Form PTO-1449:

This patent shows a correlation based watermarking method and its robustness against a collusion attack.

Reference AB (5,915,027) on Form PTO-1449:

This patent shows a spread spectrum watermarking method.

Reference AM (2000-3129) on Form PTO-1449:

This patent disclosure shows collusion-resilient watermarking devices that use a coding method of user ID's based on the Chinese Remainder theorem. However, it does not exhibit any concrete embodiment of watermarking device which is effective even for the case of more than two colluders.

Reference AN (9-191394) on Form PTO-1449:

This patent disclosure shows a spread spectrum watermarking method.

Reference AO (11-288217) on Form PTO-1449:

This patent disclosure shows an improvement of the Boneh-Shaw's method. The code length is reduced. However, it is effective only for two or less colluders.

References AP on Form PTO-1449:

This reference shows an improvement of the Boneh-Shaw's method. The code length is reduced, however, it is effective only for two or less colluders.

References AQ on Form PTO-1449:

This reference shows coding methods that are robust against the collusion attack. However, the code lengths are fairly huge.

References AR on Form PTO-1449:

This reference shows an improvement of the Boneh-Shaw's method. The code length is reduced for the case of small number of users, however, it still has large code length for the case of large number of users.

References AS on Form PTO-1449:

This reference shows coding methods that are robust against the collusion attack. However, it is effective only by combination with a spread spectrum watermarking method.

References AT on Form PTO-1449:

This reference shows a concept of fingerprinting of digital data.

References AU on Form PTO-1449:

This reference points out the problem of collusion attack in the fingerprinting.

References AV on Form PTO-1449:

This reference shows a spread spectrum watermarking method and its application to fingerprinting.

References AW on Form PTO-1449:

This reference shows the collusion-resilient watermarking method that use a coding method of user ID's based on the Chinese Remainder Theorem. Furthermore, it shows its effectiveness.

References AX on Form PTO-1449:

This reference shows a practical limit of the collusion resilient spread spectrum watermarking methods.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Hirofumi MURATANI

GAU:

SERIAL NO: NEW APPLICATION

EXAMINER:

FILED: HEREWITH

FOR: CODE GENERATING METHOD AND UNIT THEREOF, CODE DETECTING METHOD AND UNIT THEREOF, AND WATERMARK EMBEDDING UNIT AND WATERMARK DETECTING UNIT



REQUEST FOR PRIORITY

ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

SIR:

- ☐ Full benefit of the filing date of U.S. Application Serial Number, filed, is claimed pursuant to the provisions of 35 U.S.C. §120.
- ☐ Full benefit of the filing date of U.S. Provisional Application Serial Number, filed, is claimed pursuant to the provisions of 35 U.S.C. §119(e).
- ☒ Applicants claim any right to priority from any earlier filed applications to which they may be entitled pursuant to the provisions of 35 U.S.C. §119, as noted below.

In the matter of the above-identified application for patent, notice is hereby given that the applicants claim as priority:

<u>COUNTRY</u>	<u>APPLICATION NUMBER</u>	<u>MONTH/DAY/YEAR</u>
Japan	11-280652	September 30, 1999
Japan	2000-016285	January 25, 2000
Japan	2000-263871	August 31, 2000

Certified copies of the corresponding Convention Application(s)

- ☐ are submitted herewith
- ☒ will be submitted prior to payment of the Final Fee
- ☐ were filed in prior application Serial No. filed
- ☐ were submitted to the International Bureau in PCT Application Number .
Receipt of the certified copies by the International Bureau in a timely manner under PCT Rule 17.1(a) has been acknowledged as evidenced by the attached PCT/IB/304.
- ☐ (A) Application Serial No.(s) were filed in prior application Serial No. filed ; and
(B) Application Serial No.(s)
 - ☐ are submitted herewith
 - ☐ will be submitted prior to payment of the Final Fee

Respectfully Submitted,

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.

Marvin J. Spivak

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